

A Framework for a Root Cause Analysis and Action Plan in Response to a Sentinel Event

Level of Analysis		Questions		Findings		Root cause?	Ask	Take action?
What happened?	Sentinel event	What are the details of the event? (that description)						
Why did it happen? ... What were the most proximate factors? (Typically "immediate causes" variations)	The process or activity in which the event occurred	When did the event occur? (Date, day of week, time)						
		What area/service was impacted?						
		What are the steps in the process, as designed? (A flow diagram may be helpful here)						
		What steps were involved in (contributed to) the event?						
	Human factors	What human factors were relevant to the outcome?						
	Equipment factors	How did the equipment performance affect the outcome?						
	Controllable environmental factors	What factors directly affected the outcome?						
	Uncontrollable external factors	Are they truly beyond the organization's control?						
	Other	Are there any other factors that have directly influenced this outcome?						
		What other areas or services are impacted?						

Root Cause Analysis (RCA) is a structured method for identifying the causes of an adverse event. It is a process that involves a systematic investigation of the event, identifying the causes, and implementing measures to prevent recurrence. RCA is a key component of a Root Cause Analysis and Action Plan (RCAAP).

Root Cause Analysis (RCA) is a structured method for identifying the causes of an adverse event. It is a process that involves a systematic investigation of the event, identifying the causes, and implementing measures to prevent recurrence. RCA is a key component of a Root Cause Analysis and Action Plan (RCAAP).

Framework for a Root Cause Analysis (continued)

Level of Analysis		Questions	Findings		
<p>Why did that happen?</p> <p>What systems and processes underlie those proximate factors?</p> <p>(Common cause variation here may lead to special cause variation in dependent processes.)</p>	Human resource issues	<p>To what degree are staff properly qualified and currently competent for their responsibilities?</p> <p>How did actual staffing compare with ideal levels?</p>			
		<p>What are the plans for dealing with contingencies that would tend to reduce effective staffing levels?</p> <p>To what degree is staff performance in the operant process(es) addressed?</p>			
		<p>How can orientation & in-service training be improved?</p>			
	Information management issues	<p>To what degree is all necessary information available when needed? accurate? complete? unambiguous?</p> <p>To what degree is communication among participants adequate?</p>			
	Environmental management issues	<p>To what degree was the physical environment appropriate for the processes being carried out?</p> <p>What systems are in place to identify environmental risks?</p>			
		<p>What emergency and failure-mode responses have been planned and tested?</p>			
	Leadership issues: Corporate culture	<p>To what degree is the culture conducive to risk identification and reduction?</p>			
	Encouragement of communication	<p>What are the barriers to communication of potential risk factors?</p>			
	Clear communication of priorities	<p>To what degree is the prevention of adverse outcomes communicated as a high priority? How?</p>			
	Uncontrollable factors	<p>What can be done to protect against the effects of these uncontrollable factors?</p>			
			Root cause?	Ask "Why?"	Take action?

Framework for an Action Plan in Response to a Sentinel Event

		Risk Reduction Strategies		Measures of Effectiveness	
<p>For each of the findings identified in the analysis as needing an action, indicate the planned action, expected implementation date, and associated measure of effectiveness. OR . . .</p> <p>If, after consideration of such a finding, a decision is made not to implement an associated risk reduction strategy, indicate the rationale for not taking action at this time.</p> <p>Check to be sure that the selected measure will provide data that will permit assessment of the effectiveness of the action.</p> <p>Consider whether pilot testing of a planned improvement should be conducted.</p> <p>Improvements to reduce risk should ultimately be implemented in all areas where applicable, not just where the event occurred. Identify where the improvements will be implemented.</p>	Action Item #1:		Measure:		
	Action Item #2:		Measure:		
	Action Item #3:		Measure:		
	Action Item #4:		Measure:		
	Action Item #5:		Measure:		
	Action Item #6:		Measure:		
	Action Item #7:		Measure:		
	Action Item #8:		Measure:		

Cite any books or journal articles that were considered in developing this analysis and action plan: